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Claim Amendments

SEP 27 2004

1-4. Canceled.

5. (currently amended) A system for communicating using wireless time division multiplexed communications in which time is divided into a plurality of frames and each frame is divided into data bursts, and a predefined number of consecutive even and odd numbered frames defines a multiframe, said system comprising:

means for defining a channel as a series of data bursts that occur periodically every N data bursts once per frame, where N is a positive integer;

means for transmitting digital information as data bursts over said channel from a first station to a second station, wherein 0246/1357 interleaving is used within the multiframe consisting of a predefined number of consecutive frames, the data bursts in said channel being assigned to one of even or odd frames within the multiframe so that only the one of the even or odd frames is needed for communications over said channel, the 0246/1357 interleaving providing a lower delay to the start of a talkspurt than 0123/4567 interleaving.

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6. (currently amended) A system for communicating using wireless time division multiplexed communications in which time is divided into a plurality of frames and each frame is divided into data bursts, and a predefined number of consecutive even and odd numbered frames defines a multiframe, said system comprising:

means for defining a channel as a series of data bursts that occur periodically every N data bursts once per frame, where N is a positive integer;

means for transmitting digital information as data bursts over said channel from a first station to a second station, wherein 0246/1357 interleaving is used within thea multiframe consisting of a predefined number of consecutive frames, the data bursts in said channel being assigned to one of even or odd frames within the multiframe so that only the one of the even or odd frames is needed for communications over said channel, the 0246/1357 interleaving providing larger resource pools for statistical multiplexing under half duplex constraints imposed by mobile stations provided relative to 0123/4567 interleaving.

7- 11. Canceled.

12. (currently amended) A method for communicating using wireless time division multiplexed communications in which time is divided into a plurality of frames and each frame is divided into N data bursts where N is a positive integer, and where a predefined number of consecutive even and odd numbered frames defines a multiframe, said method comprising the steps of:

interleaving data bursts defining a first channel using 0246/1357 interleaving used within thea multiframe consisting of a predefined number of consecutive frames, the data bursts in the firstene channel being assigned to one of even or odd frames within the multiframe so that only the one of the even or odd frames is needed for communications over said first channel; and

transmitting the interleaved data bursts of the first channel from a first station to a second station.

13. Canceled.

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14. (currently amended) A method for communicating using wireless time division multiplexed communications in which time is divided into a plurality of frames and each frame is divided into N data bursts where N is a positive integer, and where a predefined number of consecutive even and odd numbered frames defines a multiframe, said method comprising the steps of:

| interleaving data bursts defining a first channel using 0246/1357 interleaving;

| transmitting the interleaved data bursts of the first channel from a first station to a second station;

| utilizing one of even and odd numbered frames to contain theas-a first channel;

| utilizing the other of the even and odd numbered frames as a second channel;

| disposing first and second control frames in the one and other of the even and odd numbered frames, respectively, so that a first station receiving the wireless time division multiplexed communications over the first channel need only decode the one of the even and odd numbered frames and a second station receiving the wireless time division multiplexed communications over the second channel need only decode the other of the even and odd numbered frames, thereby eliminating a need for a station to decode both even and odd numbered frames.